

hydraulic geometry

Posted by astute - 2008/08/21 00:08

Hi every one

Can anyone tell me what is hydraulic geometry relation?

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Re:hydraulic geometry

Posted by isburns - 2008/08/25 19:22

Did you look in the PDF manual? The description from the 1.5 manual available on the website is the same (Documentation->AGWA 1.5->Watershed Delineation & Discretization->Basic Concepts->Hydraulic Geometry Relationships).

Here's a cut and paste of it as well.

These relationships refer to bankfull hydraulic geometry relationships and they define the bankfull channel width and depth based on watershed size. Bankfull relationships are useful in that they define channel topography with minimal input and effort by the user; however, there are some drawbacks. The relationships are designed to be applied to very specific physiographic regions and outside of these regions the performance of the relationships in accurately depicting the channel geometries severely declines. Also, deriving relationships for specific regions is very labor intensive, requiring field work and analysis. At this time, only two relationships are defined: Walnut Gulch Experimental Watershed in southeastern Arizona (Miller, 1995) and the Coastal Plain of North Carolina (Sweet and Geratz, 2003). These relationships are provided in the HGR.dbf table located in the datafiles folder.

Shea

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